

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A tractive ~~Traotive~~-linear reciprocating driving apparatus ~~having slipping module (4), slave engaging and reversing mechanics (15), slave sprocket (8), chain (3), guide column (7), in combination, comprising:~~

a A-frame (1) of the driving apparatus mainly composed of a by-guide column (7), an auxiliary frame pillar (11) and frame end plates, two opposite both ends of the frame (1) each equipped with a flywheel (2) and a slave sprocket, respectively (8), with a single endless chain operatively connected therebetween to form a chain ring (3) installed in between, the guide column (7) used for unidirectional linear sliding slipping and the auxiliary frame pillar (11) installed positioned on a plane that is parallel to the endless both sides of chain ring plane; and

a sliding assembly slipping module (4) used for driving and a slave chain-engaging and reversing mechanism mechanics (15) thereof mounted on the guide column (7);

the sliding assembly having Said slipping module (4) has upper and lower slide bars (12, 20) of slipping module mounted on the said-guide column for 7-sliding upwards and downwards along the guide column, at least one pedal (5) and at least one hand-controlled handpower-rod (6) used for propulsion mounted on an outside butt plate of the sliding assemblyslipping module (4);

wherein:

1)-a chain engagement means of said slave chain-engaging and reversing mechanism mechanics (15) is positioned in the endless chain ring plane of chain ring, chain engagement means being 14 is connected with upper and lower slave slide bars that are mounted (16, 18) and mounted together on the guide column-7, a chain engaging tooth plate being provided in the chain engagement means and one end of the chain engaging tooth plane being is provided a chain-engaging toothed bar, the strained end thereof is float-connected with the sliding assembly via slipping module and connecting

pieces ~~including that consist of~~ a pull-up rod-(13), a pull-down rod-(21) and a nose of a connecting rod-(22); ~~there are~~ two chain-engaging teeth on the chain engaging tooth plate tilted (29, 31) towards two opposite both directions and alternatively engaging the endless chain on said chain-engaging toothed bar (19), in cooperation together with a chain-retaining board having a (17) with chain-retaining arc projection, jointly match with chain 3 and are alternately activated to work;

2)-Aa reversing compensation means (10) used with the slave chain-engaging and reversing mechanism has mechanics having a resilient member that can contact a the front surface of a chain tooth on the flywheel or the slave sprocket directly or indirectly in inverse direction, and a space or clearance is reserved left for movement.

Claim 2. (currently amended) The tractive Tractive-linear reciprocating driving apparatus according to claim 1, wherein said reversing compensation means is a resilient contact mobile member mechanics-mounted on or beneath the slave sprocket-(8), the and an arm-(37) under the force of the resilient contact mobile member elastically contacts the front surface of a chain tooth of the slave sprocket-(8).

Claim 3. (currently amended) The tractive Tractive-linear reciprocating driving apparatus according to claim 1, wherein said reversing compensation means is a modified single-stage flywheel in which there is a structural member for transmission of force between a leaf spring-(45) and a chain tooth of the flywheel, the leaf spring pressing a props up the rear end of a jack located near an inner periphery of the flywheel to make it the jack firstly elastically contact a first the-front surface of trapezoid shape ladder-type rackets on the inner periphery of the flywheel and then indirectly contact the front surface of a chain tooth on an of-outer hull indirectly of the flywheel.

Claim 4. (new) A tractive linear reciprocating driving apparatus comprising:
a frame of the driving apparatus composed of a guide column in parallel with an auxiliary frame pillar, and two parallel frame end plates in perpendicular position connecting both ends of the guide column and the auxiliary frame pillar to form a generally rectangular shape, two opposite ends of frame each equipped with a flywheel and a slave sprocket, respectively, with a single endless chain operatively connected

therebetween to form a chain ring, the guide column used for unidirectional linear sliding and the auxiliary frame pillar positioned on a plane that is parallel to the endless chain ring plane; and

a sliding assembly used for driving and a slave chain-engaging and reversing mechanism thereof mounted on the guide column,

the sliding assembly having upper and lower slide bars mounted on the guide column for sliding along the guide column, at least one pedal and at least one hand-controlled rod used for propulsion mounted on an outside butt plate of the sliding assembly;

wherein:

a chain engagement means of said slave chain-engaging and reversing mechanism is positioned in the endless chain ring plane, chain engagement means being connected with upper and lower slave slide bars that are mounted on the guide column, a chain engaging tooth plate being provided in the chain engagement means and one end of the chain engaging tooth plate being float-connected with the sliding assembly via connecting pieces including a pull-up rod, a pull-down rod and a nose of a connecting rod; two chain-engaging teeth on the chain engaging tooth plate tilted towards two opposite directions and alternatively engaging the endless chain in cooperation with a chain-retaining board having a chain-retaining arc projection;

a reversing compensation means used with the slave chain-engaging and reversing mechanism has a resilient member that can contact a front surface of a chain tooth on the flywheel or the slave sprocket directly or indirectly in inverse direction, and a space or clearance is reserved for movement.